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07/16/99

**LOCKHEED MARTIN IDAHO
TECHNOLOGIES COMPANY**

**Hazardous Waste Determination
for
WAG 4; OU 4-13 RI/FS
CFA-04 Pond samples
July 1999**

Prepared by Steve McCormick
Environmental Restoration
July 16, 1999

**Hazardous Waste Determination
for
Waste Area Group 4; Operable Unit 4-13 RI/FS
CFA-04 Pond**

I. Waste Stream

The waste stream in this hazardous waste determination (HWD) is unaltered soil samples to be collected from the area of contamination at site CFA-04 during in July 1999 for the WAG 4 Comprehensive Remedial Investigation. The samples will be returned from the laboratory to the INEEL. The field investigation is being conducted in accordance with the Federal Facility Agreement/Consent Order under CERCLA. Attachment 1 contains a summary of data collected in 1998 and 1999. The CFA-04 Pond is contaminated with mercury from disposal of simulated calcine and wastewater from a former laboratory, housed in CFA-674.

II. Waste Description

The waste included in this HWD includes unaltered soil samples to be collected from 5 locations in the CFA-04 Pond during the investigation. The samples will be contained in 250 ml. containers.

A. Waste Quantity: The quantity of waste is expected to be less than 1 ft³ of solid waste (soil).

B. Waste Storage Location: These soil samples will be returned from the laboratory in an unaltered state for disposal at the area of contamination at the CFA-04 Pond.

III. Hazardous Waste Determination

1. Is the material a solid waste? This is a solid waste under the definition of 40 CFR 261.2.

2. Is the waste excluded under 40 CFR 261.4? This waste does not meet the exclusion requirements under 40 CFR 261.4.

3. Is the waste listed under 40 CFR 261 SUBPART D? No. The waste is not listed under 40 CFR 261 Subpart D.

Is the waste identified under 40 CFR 261 SUBPART C? Yes. Samples were collected from the same locations during July 1998 and analyzed for Toxicity Characteristic Leaching Procedure (TCLP). These data (see Attachment 1) indicate that samples at 3 of 81 locations failed the TCLP analysis for mercury and are above regulatory levels. The mercury concentrations at the pond ranged from 0.26 to 0.76 mg/L (TCLP). The TCLP regulatory level is 0.2 mg/L. Therefore, these wastes are classified as RCRA characteristic for mercury under 40 CFR 261 Subpart C.

4. Is the waste identified under 40 CFR 761? No. There is no past or present data that would indicate any reason to believe PCB contamination would be present.

IV. Waste Treatment/Disposal Determination

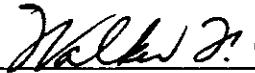
This determination is the basis that these wastes to be generated during CERCLA sampling activities in July 1999 are RCRA characteristic under 40 CFR 261, Subpart C. They are not listed per 40 CFR 761, Subpart D nor do they contain PCB contamination under 40 CFR 761. These wastes will be returned to the area of contamination at the CFA-04 Pond, under CERCLA.

WASTE DETERMINATION REVIEWED BY:


Steve McCormick

WAG 4 PBS Manager/Date

WASTE DETERMINATION REVIEWED BY:


Walker Howell

ER Environmental Compliance/Date

WASTE DETERMINATION APPROVED BY:


Roger Jones

ER Waste Characterization Team/Date

EM

7/16/99
WAG 40005

Attachment 1

**Chain of Custody Forms
10085, 10702, 10717, 10726
and
Data Summary
From the OU 4-13 RI/FS
(Appendix B)
DOE-ID/10680**

CFA-04 TCLP Data								
4CC10101H3	TCLP	Mercury	0.29	ug/L	None	SOIL	POND 101	0.5-1
4CC10201H3	TCLP	Mercury	0.85	ug/L	None	SOIL	POND 101	1.5
4CC10301H3	TCLP	Mercury	0.19	ug/L	None	SOIL	POND 101	3.0
4CC10401H3	TCLP	Mercury	0.10	ug/L	None	SOIL	POND 102	0.5-1
4CC10501H3	TCLP	Mercury	0.10	ug/L	None	SOIL	POND 102	1.5
4CC10601H3	TCLP	Mercury	0.14	ug/L	None	SOIL	POND 102	3.0
4CC10701H3	TCLP	Mercury	0.45	ug/L	None	SOIL	POND 103	0.5-1
4CC10801H3	TCLP	Mercury	3.60	ug/L	None	SOIL	POND 103	1.5
4CC10901H3	TCLP	Mercury	8.50	ug/L	None	SOIL	POND 103	3.0
4CC11001H3	TCLP	Mercury	3.60	ug/L	None	SOIL	POND 104	0.5-1
4CC11101H3	TCLP	Mercury	6.70	ug/L	None	SOIL	POND 104	1.5
4CC11201H3	TCLP	Mercury	745	ug/L	None	SOIL	POND 104	3.0
4CC11301H3	TCLP	Mercury	0.21	ug/L	None	SOIL	POND 105	0.5-1
4CC11401H3	TCLP	Mercury	0.10	ug/L	None	SOIL	POND 105	1.5
4CC11501H3	TCLP	Mercury	0.10	ug/L	None	SOIL	POND 105	3.0
4CC11601H3	TCLP	Mercury	9.20	ug/L		SOIL	POND 106	0.5-1
4CC11701H3	TCLP	Mercury	5.90	ug/L		SOIL	POND 107	1.5
4CC11801H3	TCLP	Mercury	59.20	ug/L		SOIL	POND 106	3.0
4CC11901H3	TCLP	Mercury	63.70	ug/L		SOIL	POND 107	0.5-1
4CC12001H3	TCLP	Mercury	0.10	ug/L		SOIL	POND 109	1.5
4CC12101H3	TCLP	Mercury	0.10	ug/L		SOIL	POND 107	3.0

Sample no.	Analysis	Compound	Conc	Rad unct	Units	Q flags	Matrix	Type location	Depth (ft)	Sample date
4CC12201H3	TCLP	Mercury	0.10		ug/L	UJ	SOIL	POND 108	0.5-1	7/23/98
4CC12301H3	TCLP	Mercury	0.10		ug/L	UJ	SOIL	POND 108	1.5	7/25/98
4CC12401H3	TCLP	Mercury	0.10		ug/L	UJ	SOIL	POND 108	3.0	7/25/98
4CC12501H3	TCLP	Mercury	0.10		ug/L	UJ	SOIL	POND 109	0.5-1	7/23/98
4CC12601H3	TCLP	Mercury	0.10		ug/L	UJ	SOIL	POND 109	1.5	7/25/98
4CC12602H3	TCLP	Mercury	0.10		ug/L	UJ	SOIL	POND 109	1.5	7/25/98
4CC12701H3	TCLP	Mercury	0.10		ug/L	UJ	SOIL	POND 109	3.0	7/25/98
4CC12801H3	TCLP	Mercury	29.60		ug/L	J	SOIL	POND 110	0.5-1	7/23/98
4CC12901H3	TCLP	Mercury	57.90		ug/L	J	SOIL	POND 110	1.5	7/25/98
4CC13001H3	TCLP	Mercury	61.00		ug/L	J	SOIL	POND 110	3.0	7/25/98
4CC13101H3	TCLP	Mercury	0.10		ug/L	UJ	SOIL	POND 111	0.5-1	7/23/98
4CC13201H3	TCLP	Mercury	0.10		ug/L	UJ	SOIL	POND 111	1.5	7/25/98
4CC13301H3	TCLP	Mercury	0.10		ug/L	UJ	SOIL	POND 111	3.0	7/25/98
4CC13401H3	TCLP	Mercury	0.25		ug/L		SOIL	POND 112	0.5-1	7/23/98
4CC13501H3	TCLP	Mercury	0.10		ug/L		SOIL	POND 112	1.5	7/23/98
4CC13601H3	TCLP	Mercury	0.10		ug/L		SOIL	POND 112	3.0	7/23/98
4CC13701H3	TCLP	Mercury	0.62		ug/L		SOIL	POND 113	0.5-1	7/23/98
4CC13801H3	TCLP	Mercury	0.60		ug/L		SOIL	POND 113	1.5	7/23/98
4CC13901H3	TCLP	Mercury	0.10		ug/L		SOIL	POND 113	3.0	7/23/98
4CC14001H3	TCLP	Mercury	23.40		ug/L		SOIL	POND 114	0.5-1	7/23/98
4CC14101H3	TCLP	Mercury	19.90		ug/L		SOIL	POND 114	1.5	7/23/98
4CC14201H3	TCLP	Mercury	44.80		ug/L		SOIL	POND 114	3.0	7/23/98
4CC14301H3	TCLP	Mercury	34.80		ug/L		SOIL	POND 115	0.5-1	7/23/98
4CC14401H3	TCLP	Mercury	69.80		ug/L		SOIL	POND 115	1.5	7/23/98
4CC14501H3	TCLP	Mercury	18.40		ug/L	None	SOIL	POND 115	3.0	7/23/98
4CC14601H3	TCLP	Mercury	17.8		ug/L	None	SOIL	POND 116	0.5-1	7/27/98
4CC14701H3	TCLP	Mercury	75.2		ug/L	None	SOIL	POND 116	1.5	7/27/98
4CC14801H3	TCLP	Mercury	759		ug/L	None	SOIL	POND 116	3.0	7/27/98
4CC14901H3	TCLP	Mercury	4.80		ug/L	None	SOIL	POND 117	0.5-1	7/27/98
4CC15001H3	TCLP	Mercury	114		ug/L	None	SOIL	POND 117	1.5	7/27/98
4CC15101H3	TCLP	Mercury	67.7		ug/L	None	SOIL	POND 117	3.0	7/27/98
4CC15102H3	TCLP	Mercury	71.9		ug/L	None	SOIL	POND 117	3.0	7/27/98
4CC15201H3	TCLP	Mercury	1.30		ug/L	None	SOIL	POND 118	0.5-1	7/27/98
4CC15301H3	TCLP	Mercury	0.10		ug/L	None	SOIL	POND 118	1.5	7/27/98
4CC15401H3	TCLP	Mercury	0.10		ug/L	None	SOIL	POND 118	3.0	7/27/98
4CC15501H3	TCLP	Mercury	1.70		ug/L		SOIL	POND 119	0.5-1	7/27/98
4CC15601H3	TCLP	Mercury	4.00		ug/L	None	SOIL	POND 119	1.5	7/27/98
4CC15701H3	TCLP	Mercury	256		ug/L	None	SOIL	POND 119	3.0	7/27/98
4CC15801H3	TCLP	Mercury	0.10		ug/L	None	SOIL	POND 120	0.5-1	7/27/98
4CC15901H3	TCLP	Mercury	0.10		ug/L	None	SOIL	POND 120	1.5	7/27/98
4CC16001H3	TCLP	Mercury	0.10		ug/L	None	SOIL	POND 120	3.0	7/27/98
4CC16101H3	TCLP	Mercury	1.20		ug/L	None	SOIL	POND 121	0.5-1	7/27/98
4CC16201H3	TCLP	Mercury	3.90		ug/L	None	SOIL	POND 121	1.5	7/27/98
4CC16301H3	TCLP	Mercury	7.70		ug/L	None	SOIL	POND 121	3.0	7/27/98
4CC16401H3	TCLP	Mercury	1.60		ug/L	None	SOIL	POND 122	0.5-1	7/27/98
4CC16501H3	TCLP	Mercury	15.8		ug/L	None	SOIL	POND 122	1.5	7/27/98
4CC16601H3	TCLP	Mercury	15.7		ug/L	None	SOIL	POND 122	3.0	7/27/98
4CC16701H3	TCLP	Mercury	1.00		ug/L	None	SOIL	POND 123	0.5-1	7/27/98
4CC16801H3	TCLP	Mercury	0.21		ug/L	None	SOIL	POND 123	1.5	7/27/98
4CC16901H3	TCLP	Mercury	0.16		ug/L	None	SOIL	POND 123	3.0	7/28/98
4CC17001H3	TCLP	Mercury	0.10		ug/L	None	SOIL	POND 124	0.5-1	7/27/98
4CC17101H3	TCLP	Mercury	0.10		ug/L	None	SOIL	POND 124	1.5	7/27/98
4CC17102H3	TCLP	Mercury	0.10		ug/L	None	SOIL	POND 124	1.5	7/27/98
4CC17201H3	TCLP	Mercury	0.10		ug/L	None	SOIL	POND 124	3.0	7/27/98
4CC17301H3	TCLP	Mercury	54.2		ug/L	None	SOIL	POND 125	0.5-1	7/28/98
4CC17401H3	TCLP	Mercury	2.20		ug/L	None	SOIL	POND 125	1.5	7/28/98
4CC17501H3	TCLP	Mercury	84.4		ug/L	None	SOIL	POND 125	3.0	7/28/98
4CC17601H3	TCLP	Mercury	4.80		ug/L	None	SOIL	POND 126	0.5-1	7/28/98
4CC17701H3	TCLP	Mercury	0.70		ug/L	None	SOIL	POND 126	1.5	7/28/98
4CC17801H3	TCLP	Mercury	11.4		ug/L	None	SOIL	POND 126	3.0	7/28/98
4CC17901H3	TCLP	Mercury	0.25		ug/L	None	SOIL	BERM 127	0-0.5	7/28/98